

CURRICULUM VITAE: *Irwin Monroe Arias, MD*

EDUCATION

1946 – S.B. (Honors) - Harvard University, Cambridge, MA

1947 – 1948 Columbia University, Graduate School of Arts and Sciences (protein biochemistry)

1952 – MD, State University of New York, Downstate Medical Center

1951 – Elected to Alpha Omega Alpha (President, 1952)

POSTGRADUATE TRAINING

1952 – 1954 Intern and Assistant Resident in Medicine Fourth Medical Service (Harvard) Boston City Hospital, Boston, MA

1954 – 1955 Fellow in Hematology, Boston City Hospital (Harvard) – Boston, MA

1955 – 1956 USPHS Fellow in Gastroenterology/Liver Disease, Second & Fourth Medical Services (Harvard) Boston City Hospital, Boston, MA

FACULTY POSITIONS

Albert Einstein College of Medicine, New York, NY

1956 – 1984 Assistant Professor to Professor of Medicine

1956 – 1984 Attending Physician Bronx Municipal Hospital Center, NY

1967 – 1984 Chief, Division of Gastroenterology and Liver Disease

1973 – 1984 Vice-chairman for Academic Affairs, Department of Medicine

1984 – 2001 Visiting Professor of Medicine

2011 – present- Professor of Medicine, Emeritus

Tufts University School of Medicine

1984 – 2002 Professor and Chairman, Department of Cellular and Molecular Physiology -

1984 – 2002 Professor of Medicine, Tufts/New England Medical Center

2007 – present- Professor of Physiology and of Medicine, Emeritus

National Institutes of Health

2000 – present, Assistant to the Director of NIH, Intramural Program

2000 – present, Director, NIH Course on “Demystifying Medicine for PhD” for students, fellows and Investigators, now in 11th year with ~900 NIH registered participants per year. Course replicated in 16 North American institutions and 15 foreign countries

2007 – present, Senior Scientist, Emeritus NICHD, NIH

2. 1967 – 1984: Director and Principal Investigator of NIDDK Training Grant in Gastroenterology

3. **1974 – 1984 Founding Director of NIDDK Liver Research Center.**

The Einstein Liver Center was the first to be funded by NIH, consists of collaborating RO-1-funded investigators in many basic and clinical science departments, and has been highly productive in bridging basic sciences with diagnosis, mechanisms and treatment of liver disease.

Tufts University School of Medicine

1981 – 1986 Founding Editor, Hepatology (official journal of the American Association for the Study of Liver Diseases)

1995 – 1997 Physiological Reviews

1976 Vice-President American Society for Clinical Investigation

1975 – 1976 President, American Association for the Study of Liver Diseases

B. AWARDS

1958 – Vincent Lyons Award, American Gastroenterological Association

1961 – Distinguished Achievement Award, American Gastroenterological Association -

1961 – Distinguished Commendation Medal in Medicine, University of Recife, Brazil

1963 – Annual Honorary Medical Award, University of Chile

1964 – Citation in Science, University of Caracas, Venezuela

1965 – Distinguished Achievement Award, American College of Gastroenterology

1967 – Distinguished Achievement Award, Canadian Gastroenterological Association

1973 – Albert Einstein College of Medicine, Annual Distinguished Lecturer

1978 – International Association for the Study of Liver Disease

1982 – Fogarty Center Scholar-in-Residence, National Institutes of Health

1987 – 1995 MERIT Award, National Institute of Diabetes, Digestive and Kidney Diseases, NIH

1988 – Japanese Association for the Study of Liver Disease

1989 – 1993 University Professor, University of Firenze, Italy

1990 – American Liver Foundation Special Tribute

1990 – present Annual Irwin M. Arias, MD Symposium: "Bridging Basic Science with Liver Disease," established by the American Liver Foundation (in its 22nd year)

1992 – present Annual Irwin M. Arias, MD Postdoctoral Fellowship Award, American Liver Foundation (in its 20th year)

1994 – Distinguished Achievement Award, American Association for the Study of Liver Disease

1996 – Distinguished Faculty Award, Tufts University, Boston, MA

1997 – Ukrainian National Research Academy, Honorary member

1998 – Distinguished Scientific Achievement Award, Asian-Pacific Association for Study of Liver Disease

1998 – Distinguished Scientific Achievement Award, American Liver Foundation

1998 – Horace Davenport Achievement Award and Lecturer, American Physiological Society

2001 – Fogarty Center Scholar-in-Residence, National Institutes of Health

2004 – Annual Irwin M. Arias, MD Research Fellowship by the American

Gastroenterological Association

2009 – Inauguration of the Irwin M. Arias, MD Annual Symposium on “Bridging basic science and liver disease,” Mexican Academy of Sciences

2010 – Elected to Honorary Membership, Mexican Academy of Medicine

2012 – Distinguished Alumnus Achievement Award, Downstate Medical School

A. EDUCATION, PhD SCIENTISTS TO STUDY HUMAN DISEASES

1. Arias IM (1989) Training basic scientists to bridge the gap between basic science and its application to human disease. *New Engl J Med* 321:972-964.
2. Arias IM (2004) Bridging the Bed-Bench Gap. *National Research Council* 45-60.
3. Arias IM (2003) Bridging basic science and medicine. *Research America* 3:56-58.
4. Arias IM (2009) Need for a bridge and how to build it. *The NIH Catalyst* 17: No 4.
5. Arias IM (2012) Eighteen-year analysis of outcomes of a program training basic scientists in pathobiology (in review).

B. BIOMEDICAL RESEARCH

Dr. Arias’ discoveries of mechanisms of inheritable jaundice, that ABC transporters mediate bile transport, and that AMP kinase and Liver Kinase-B1 regulate hepatocyte polarization, mitochondrial fusion, ATP production, and bile transporters established new paradigms for biliary secretion and led to molecular identification of inheritable liver diseases.. Equally important, Dr. Arias is the acknowledged founder of the field of pathobiology education for Ph.D.’s and the “Demystifying Medicine for PhDs” Course he developed at NIH has become national and global.

378 peer-reviewed articles, edited 10 books and many reviews and book chapters.